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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/554,465DATE: 10/09/2001  
TIME: 09:50:06Input Set : A:\ES.txt  
Output Set: N:\CRF3\10092001\I554465.raw

3 <110> APPLICANT: KUFER, Peter  
 4 RAUM, Tobias  
 5 BORSCHERT, Katrin  
 6 ZETTL, Florian  
 7 LUTTERBUSE, Ralf  
 9 <120> TITLE OF INVENTION: A NOVEL METHOD OF IDENTIFYING BINDING SITE DOMAINS THAT  
 RETAIN THE  
 10 CAPACITY OF BINDING TO AN EPITOPE  
 12 <130> FILE REFERENCE: 0147-0199P  
 14 <140> CURRENT APPLICATION NUMBER: US 09/554,465  
 C--> 15 <141> CURRENT FILING DATE: 2000-05-12  
 17 <160> NUMBER OF SEQ ID NOS: 77  
 19 <170> SOFTWARE: PatentIn version 3.1  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 33  
 23 <212> TYPE: DNA  
 24 <213> ORGANISM: Artificial Sequence ✓  
 26 <220> FEATURE:  
 27 <223> OTHER INFORMATION: primer for human costimulatory protein CD80  
 29 <400> SEQUENCE: 1  
 30 gcagaattca ccatggcca cacacggagg cag 33  
 33 <210> SEQ ID NO: 2  
 34 <211> LENGTH: 34  
 35 <212> TYPE: DNA  
 36 <213> ORGANISM: Artificial Sequence  
 38 <220> FEATURE:  
 39 <223> OTHER INFORMATION: primer for human costimulatory protein CD80 ✓  
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 42 tggccggag ttatcagaa aatgctttt cttg 34  
 45 <210> SEQ ID NO: 3  
 46 <211> LENGTH: 36  
 47 <212> TYPE: DNA  
 48 <213> ORGANISM: Artificial Sequence ✓  
 50 <220> FEATURE:  
 51 <223> OTHER INFORMATION: primer for human CD80-M79scFv ✓  
 53 <400> SEQUENCE: 3  
 54 aggtgtacac tccgatatcm arctgcagsa gtcwgg 36  
 57 <210> SEQ ID NO: 4  
 58 <211> LENGTH: 37  
 59 <212> TYPE: DNA  
 60 <213> ORGANISM: Artificial Sequence ✓  
 62 <220> FEATURE:  
 63 <223> OTHER INFORMATION: primer for single-chain Fv fragment (scFv) of the murine anti  
 17- 64 1A antibody M74 V(L) 37  
 66 <400> SEQUENCE: 4  
 67 aggtgtacac tccgatatcc agctgaccca gtctcca  
 70 <210> SEQ ID NO: 5

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71 <211> LENGTH: 51

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72 <212> TYPE: DNA  
73 <213> ORGANISM: Artificial Sequence  
75 <220> FEATURE:  
76 <223> OTHER INFORMATION: primer for single-chain Fv fragment (scFv) of the murine anti-  
17- 77 1A antibody M74 V(L)  
79 <400> SEQUENCE: 5  
80 ggagccgccc cgcgcagaac caccaccacc tttgatctcg agcttggtcc c 51  
83 <210> SEQ ID NO: 6  
84 <211> LENGTH: 96  
85 <212> TYPE: DNA  
86 <213> ORGANISM: Artificial Sequence  
88 <220> FEATURE:  
89 <223> OTHER INFORMATION: primer for single-chain Fv fragment (scFv) of the murine anti-  
17- 90 1A antibody M74 V(H)  
92 <400> SEQUENCE: 6  
93 ggcggcggcg gctccgggtgg tgggtggttct caggtsmarc tgcagsagtc wggacctgag 60  
95 ctggtaagc ctggggcttc agtgaagatt tcctgc 96  
98 <210> SEQ ID NO: 7  
99 <211> LENGTH: 39  
100 <212> TYPE: DNA  
101 <213> ORGANISM: Artificial Sequence  
103 <220> FEATURE:  
104 <223> OTHER INFORMATION: primer for single-chain Fv fragment (scFv) of the murine anti-  
anti 17- 105 1A antibody M74 V(H)BspEI  
107 <400> SEQUENCE: 7  
108 aatccggagg agacgggtgac cgtggccct tggccccag 39  
111 <210> SEQ ID NO: 8  
112 <211> LENGTH: 69  
113 <212> TYPE: DNA  
114 <213> ORGANISM: Artificial Sequence  
116 <220> FEATURE:  
117 <223> OTHER INFORMATION: primer for single-chain Fv fragment (scFv) of the murine anti-  
anti 17- 118 1A antibody M74 V(H)  
120 <400> SEQUENCE: 8  
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123 attccctgc 69  
126 <210> SEQ ID NO: 9  
127 <211> LENGTH: 64  
128 <212> TYPE: DNA  
129 <213> ORGANISM: Artificial Sequence  
131 <220> FEATURE:  
132 <223> OTHER INFORMATION: primer for single-chain Fv fragment (scFv) of the murine anti-  
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135 <400> SEQUENCE: 9  
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138 ccag 64  
141 <210> SEQ ID NO: 10  
142 <211> LENGTH: 54

143 <212> TYPE: DNA

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144 <213> ORGANISM: Artificial Sequence  
146 <220> FEATURE:  
147 <223> OTHER INFORMATION: primer for single-chain Fv fragment (scFv) of the murine ✓  
anti 17-  
148 1A antibody M74 V(L)  
150 <400> SEQUENCE: 10  
151 ggccggcgccg gctccgggtgg tgggtggttct gacattcagc tgacccagtc tccca 54  
154 <210> SEQ ID NO: 11  
155 <211> LENGTH: 29  
156 <212> TYPE: DNA  
157 <213> ORGANISM: Artificial Sequence  
159 <220> FEATURE:  
160 <223> OTHER INFORMATION: primer for single-chain Fv fragment (scFv) of the murine ✓  
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161 1A antibody M74 V(L)  
163 <400> SEQUENCE: 11  
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167 <210> SEQ ID NO: 12  
168 <211> LENGTH: 22  
169 <212> TYPE: DNA  
170 <213> ORGANISM: Artificial Sequence  
172 <220> FEATURE:  
173 <223> OTHER INFORMATION: primer for V(H) chain of human anti-17-1A antibody ✓  
175 <400> SEQUENCE: 12  
176 aggtgcagct gctcgagtct gg 22  
179 <210> SEQ ID NO: 13  
180 <211> LENGTH: 17  
181 <212> TYPE: DNA  
182 <213> ORGANISM: Artificial Sequence  
184 <220> FEATURE:  
185 <223> OTHER INFORMATION: primer for V(H) chain of human anti-17-1A antibody ✓  
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188 ctgaggagac ggtgacc 17  
191 <210> SEQ ID NO: 14  
192 <211> LENGTH: 38  
193 <212> TYPE: DNA  
194 <213> ORGANISM: Artificial Sequence  
196 <220> FEATURE:  
197 <223> OTHER INFORMATION: primer for V(L) chain of human anti-17-1A antibody ✓  
199 <400> SEQUENCE: 14  
200 gagccgcacg agcccgagct cgtgwtgacr cagtcctcc 38  
203 <210> SEQ ID NO: 15  
204 <211> LENGTH: 33  
205 <212> TYPE: DNA  
206 <213> ORGANISM: Artificial Sequence  
208 <220> FEATURE:  
209 <223> OTHER INFORMATION: primer for V(L) chain of human anti-17-1A antibody ✓  
211 <400> SEQUENCE: 15  
212 gaagacacta gttgcagcca ccgtacgttt rat 33  
215 <210> SEQ ID NO: 16  
216 <211> LENGTH: 24

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217 <212> TYPE: DNA  
218 <213> ORGANISM: Artificial Sequence  
220 <220> FEATURE:  
221 <223> OTHER INFORMATION: oligomer encoding six HIS residues ✓  
223 <400> SEQUENCE: 16  
224 ctagccatca ccatcaccat caca 24  
227 <210> SEQ ID NO: 17  
228 <211> LENGTH: 24  
229 <212> TYPE: DNA  
230 <213> ORGANISM: Artificial Sequence  
232 <220> FEATURE:  
233 <223> OTHER INFORMATION: oligomer encoding six HIS residues ✓  
235 <400> SEQUENCE: 17  
236 ctagtgtgat ggtgatggtg atgg 24  
239 <210> SEQ ID NO: 18  
240 <211> LENGTH: 47  
241 <212> TYPE: DNA  
242 <213> ORGANISM: Artificial Sequence  
244 <220> FEATURE:  
245 <223> OTHER INFORMATION: oligonucleotide for multiple cloning site containing SacI ✓  
and Xho  
246 I overhang  
248 <400> SEQUENCE: 18  
249 gcagctggtc gacaaatccg gaggtggatc atccgaggtg cagctgc 47  
252 <210> SEQ ID NO: 19  
253 <211> LENGTH: 55  
254 <212> TYPE: DNA  
255 <213> ORGANISM: Artificial Sequence  
257 <220> FEATURE:  
258 <223> OTHER INFORMATION: oligonucleotide for multiple cloning site containing SacI ✓  
and Xho  
259 I overhang  
261 <400> SEQUENCE: 19  
262 tcgagcagct gcaccccgaa tccaccaccc ccggattttgt cgaccagctg cagct 55  
265 <210> SEQ ID NO: 20  
266 <211> LENGTH: 79  
267 <212> TYPE: DNA  
268 <213> ORGANISM: Artificial Sequence  
270 <220> FEATURE:  
271 <223> OTHER INFORMATION: oligonucleotide containing multiple cloning sites ✓  
273 <400> SEQUENCE: 20  
274 tcgagcccg tcaccgtctc ctcaggtgg ggtggatctg gccgcggcgg ctccggatgt 60  
276 ggtggatctg agctccggaa 79  
279 <210> SEQ ID NO: 21  
280 <211> LENGTH: 79  
281 <212> TYPE: DNA  
282 <213> ORGANISM: Artificial Sequence  
284 <220> FEATURE:  
285 <223> OTHER INFORMATION: oligonucleotide containing multiple cloning sites ✓  
287 <400> SEQUENCE: 21  
288 ctagcccgaa gtcagaacc accaccaccc gagccgcggc cgccagaacc accaccaccc 60

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290 gaggagacgg tgaccggc 79  
 293 <210> SEQ ID NO: 22  
 294 <211> LENGTH: 29  
 295 <212> TYPE: DNA  
 296 <213> ORGANISM: Artificial Sequence  
 298 <220> FEATURE:  
 299 <223> OTHER INFORMATION: primer for M13 gene III domain N2 ✓  
 301 <400> SEQUENCE: 22  
 302 ggtgtcgaca ctaaacctcc tgagtacgg 29  
 305 <210> SEQ ID NO: 23  
 306 <211> LENGTH: 30  
 307 <212> TYPE: DNA  
 308 <213> ORGANISM: Artificial Sequence  
 310 <220> FEATURE:  
 311 <223> OTHER INFORMATION: primer for the M13 gene III domain N2 ✓  
 313 <400> SEQUENCE: 23  
 314 gcctccggaa gcattgacag gaggttgagg 30  
 317 <210> SEQ ID NO: 24  
 318 <211> LENGTH: 33  
 319 <212> TYPE: DNA  
 320 <213> ORGANISM: Artificial Sequence  
 322 <220> FEATURE:  
 323 <223> OTHER INFORMATION: primer for detection of positive clones ✓  
 325 <400> SEQUENCE: 24  
 326 gcagaattca ccatggcca cacacggagg cag 33  
 329 <210> SEQ ID NO: 25  
 330 <211> LENGTH: 39  
 331 <212> TYPE: DNA  
 332 <213> ORGANISM: Artificial Sequence  
 334 <220> FEATURE:  
 335 <223> OTHER INFORMATION: primer for detection of positive clones ✓  
 337 <400> SEQUENCE: 25  
 338 tggtgacta gtcgtacgtt tgatctcaag cttggtccc 39  
 341 <210> SEQ ID NO: 26  
 342 <211> LENGTH: 32  
 343 <212> TYPE: DNA  
 344 <213> ORGANISM: Artificial Sequence  
 346 <220> FEATURE:  
 347 <223> OTHER INFORMATION: primer for the extracellular region of the human CD54 ✓  
 antigen kno  
 348 wn as ICAM-1  
 350 <400> SEQUENCE: 26  
 351 ctcgaattca ctatggctcc cagcagcccc cg 32  
 354 <210> SEQ ID NO: 27  
 355 <211> LENGTH: 30  
 356 <212> TYPE: DNA  
 357 <213> ORGANISM: Artificial Sequence  
 359 <220> FEATURE:  
 360 <223> OTHER INFORMATION: primer for the extracellular region of the human CD54 ✓  
 antigen kno  
 361 wn as ICAM-1

VERIFICATION SUMMARY  
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Input Set : A:\ES.txt  
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L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date 04